

XX Sequence 245 AA;
 SQ Query Match 94.9%; Score 1363; DB 22; Length 245;
 Best Local Similarity 99.6%; Pred. No. 1.3e-119;
 Matches 244; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 14 MTLFVLLFLVAGLLSPFANEDKDPATLTTOTQVOREYVKNHNLRAVSPPARNM 73
 DB 1 MTLFVLLFLVAGLLSPFANEDKDPATLTTOTQVOREYVKNHNLRAVSPPARNM 60

QY 74 LKEMNKKEAANAOKMANOCNTRHSNPKDRMTSLKCGENLYMSAPSSWSQAIOQWFDXY 133
 DB 61 LKEMNKKEAANAOKMANOCNTRHSNPKDRMTSLKCGENLYMSAPSSWSQAIOQWFDXY 120

QY 134 NDFDFGVGPKTPNAVYGHYTOVWYSSYLVCGNAYCPNOKVLYKYYVCOYCPAGMANMR 193
 DB 121 NDFDFGVGPKTPNAVYGHYTOVWYSSYLVCGNAYCPNOKVLYKYYVCOYCPAGMANMR 180

QY 194 LYPYEGGAPCASCPCDNDGDLCTNGCKYEDLYSNCKSLKLTITCKHQLVDRSCASCNC 253
 DB 181 LYPYEGGAPCASCPCDNDGDLCTNGCKYEDLYSNCKSLKLTITCKHQLVDRSCASCNC 240

QY 254 SNSIY 258
 DB 241 SNSIY 245

RESULT 3
 AAM24000
 ID AAM24000 standard; Protein: 245 AA.

AC AAM24000;
 DT 12-OCT-2001 (first entry)

DE Human EST encoded protein SEQ ID NO: 1525.

XX Human: sheep; pig; cow; fruit fly; yeast; hamster; macaque; horse;
 KW tomato; monkey; dog; sea urchin; expressed sequence tag; EST;
 KM diagnostics; forensic test; gene mapping; genetic disorder;
 XX biodiversity; gene therapy; nutrition.

OS Homo sapiens.
 XX
 PN WO200154477-A2.
 XX
 PD 02-AUG-2001.
 XX
 PF 25-JAN-2001; 2001WO-US02687.
 XX
 PR 25-JAN-2000; 2000US-0491404.
 PR 17-JUL-2000; 2000US-0617746.
 PR 03-AUG-2000; 2000US-0631451.
 PR 15-SEP-2000; 2000US-0663870.

XX (HYSE-) HYSEQ INC.
 XX
 PI Tang YT, Liu C, Zhou P, Qian XB, Wang Z, Chen R, Asundi V;
 PI Cao Y, Driemac RA, Zhang J, Werhman T;
 XX
 DR WPI: 2001-476164/51.
 DR N-PSDB: AAH98659.

XX
 PT Isolated polypeptide for treatment of diseases, diagnostics, raising
 PT antibodies and research use -
 XX
 PS Claim 20: Page 1051-1052; 1275pp; English.

XX The present invention provides the protein and coding sequences of novel
 CC proteins from a variety of organisms, including human, dog, cat, horse,
 CC cow, pig, hamster, monkey, macaque, yeast, bacteria, fruit fly, sea
 CC urchin and tomato. These were derived from expressed sequence tags (ESTs)

CC from the organism of interest. They can be used in diagnostics,
 CC forensics, gene mapping, identification of mutations, to assess
 CC biodiversity and for nutritional purposes. The present sequence is a
 CC protein of the invention.

XX
 SQ Sequence 245 AA;
 Query Match 94.9%; Score 1363; DB 22; Length 245;
 Best Local Similarity 99.6%; Pred. No. 1.3e-119;
 Matches 244; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 14 MTLFVLLFLVAGLLSPFANEDKDPATLTTOTQVOREYVKNHNLRAVSPPARNM 73
 DB 1 MTLFVLLFLVAGLLSPFANEDKDPATLTTOTQVOREYVKNHNLRAVSPPARNM 60

QY 74 LKEMNKKEAANAOKMANOCNTRHSNPKDRMTSLKCGENLYMSAPSSWSQAIOQWFDXY 133
 DB 61 LKEMNKKEAANAOKMANOCNTRHSNPKDRMTSLKCGENLYMSAPSSWSQAIOQWFDXY 120

QY 134 NDFDFGVGPKTPNAVYGHYTOVWYSSYLVCGNAYCPNOKVLYKYYVCOYCPAGMANMR 193
 DB 121 NDFDFGVGPKTPNAVYGHYTOVWYSSYLVCGNAYCPNOKVLYKYYVCOYCPAGMANMR 180

QY 194 LYPYEGGAPCASCPCDNDGDLCTNGCKYEDLYSNCKSLKLTITCKHQLVDRSCASCNC 253
 DB 181 LYPYEGGAPCASCPCDNDGDLCTNGCKYEDLYSNCKSLKLTITCKHQLVDRSCASCNC 240

QY 254 SNSIY 258
 DB 241 SNSIY 245

RESULT 4
 ABG06656
 ID ABG06656 standard; Protein: 257 AA.

AC ABG06656;
 DT 13-FEB-2002 (first entry)

DE Novel human diagnostic protein #647.

XX Human: chromosome mapping; gene mapping; gene therapy; forensic;
 KW food supplement; medical imaging; diagnostic; genetic disorder.
 XX
 OS Homo sapiens.
 XX
 PN WO200175067-A2.
 XX
 PD 11-OCT-2001.
 XX
 PF 30-MAR-2001; 2001WO-US08631.
 XX
 PR 31-MAR-2000; 2000US-0540217.
 PR 23-AUG-2000; 2000US-0649167.

XX (HYSE-) HYSEQ INC.
 XX
 PI Driemac RT, Liu C, Tang YT;
 PI WPI: 2001-639362/73.
 DR N-PSDB: AAS70843.

XX
 PT New isolated polynucleotide and encoded polypeptides, useful in
 PT diagnostics, forensics, gene mapping, identification of mutations
 PT responsible for genetic disorders or other traits and to assess
 PT biodiversity -
 XX
 PS Claim 20; SEQ ID NO 37015; 103pp; English.

XX The invention relates to isolated polynucleotide (I) and
 CC polypeptide (II) sequences. (I) is useful as hybridisation probes,
 CC polymerase chain reaction (PCR) primers, oligomers, and for chromosome

CC and gene mapping, and in recombinant production of (II). The
CC polynucleotides are also used in diagnostics as expressed sequence tags
CC for identifying expressed genes. (I) is useful in gene therapy techniques
CC to restore normal activity of (II) or to treat disease states involving
CC (II). (II) is useful for generating antibodies against it, detecting or
CC quantitating a polypeptide in tissue, as molecular weight markers and as
CC a food supplement. (II) and its binding partners are useful in medical
CC imaging of sites expressing (II). (I) and (II) are useful for treating
CC disorders involving aberrant protein expression or biological activity.
CC The polypeptide and polynucleotide sequences have applications in
CC diagnostics, forensics, gene mapping, identification of mutations
CC responsible for genetic disorders or other traits to assess biodiversity
CC and to produce other types of data and products dependent on DNA and
CC amino acid sequences. ABG00010-ABG0377 represent novel human
CC diagnostic amino acid sequences of the invention.
CC Note: The sequence data for this patent did not appear in the printed
CC specification, but was obtained in electronic format directly from WIGO
CC at <http://wigo.int/pub/pub/sequences>.
CC
CC Sequence 257 AA:
CC
CC

Query Match	69.1%;	Score 992;	DB 22;	Length 257;
Best Local Similarity	72.0%;	Pred. No. 8.8e-85;		
Matches 177; Conservative	25;	Mismatches 42;	Indels 2;	Gaps 2

QY	13	AATLEPVLLEFVGLLPSFPANEDEDPATFALLTOTOYOEIVNKINELNRKRVSPARN	72
Db	14	AALPLV-LFELYVLLPSLPA-EGSDPAFALLTOLQOREIVNKINELNRKRVSPASN	71
QY	73	MLKMEKNKEAALNAQKMAQNCYRHSNPKDRMTSLKCGENLYMSSAASWSQATOWPDE	132
Db	72	MLKMSSEVETYNQNRANKCTLOHSDPEDRKTSTNGCENLYMSSDPTSMASIAQWYDE	131
QY	133	YNDPFGGPTPRPAVAVGHYTOVWYSSTLYVGGNAYCENOKVLYKYYVOCYCPAGNMN	192
Db	132	ILDFFYGVGGPSRPAVAVGHYTOVLWYSTRYOVGGIATYCPNQDLSLKYTYTCOYCPAGNMN	191
QY	193	RLYVYEGGACACSCPDNDQDLCTNCNCKYEDLISNCKSLKTLTLCNOLYRBSCKACSN	255
Db	192	RKNTYQGGTGCACCPDQDCKGLCTNSCOTQDULSNCKSLKNTAGICEHELLKCKCATCL	251
QY	253	CSNSIT 258	
Db	252	CEKTI 257	

RESULT 5
AAE13072
ID AAE13072 standard; Protein; 243 AA
vv

DT	28-JAN-2002	(first entry)
XX		
DE	Homo sapiens (HS)	-Tpx protein
XY		

KM Angiogenesis; Or-ASP; therapy; circulatory disorder; vascular disorder;
 KM congenital heart disease; myocardial disease; pericardial disease; vert;
 KM cerebrovascular ischemia; vemo-occlusive disease; myocardial ischaemia;
 KM coronary artery disease; diabetic retinopathy; inflammatory disease;
 KM wound healing; duodenal ulceration; rheumatoid arthritis; Kaposi's sarcoma;
 KM periodontitis; dermatological; cutaneous malignancy; Kaposi's sarcoma;
 KM pyogenic granuloma; cancer; onchocerciasis; River blindness;
 KM vasotropic; cardiac; antiparasitic; ophthalmological.

OS Homo sapiens.

	Key	Location/Qualifiers
FH	Peptide	1..22
FT	Protein	/label= Signal-peptide
FT		23..243
FT		/label= Mature-Hs-Tpx-protein

PN	WO200174385-A1.
XX	
PD	11-OCT-2001.
XX	
PF	27-MAR-2001; 2001WO-US09798.
XX	
XX	
PR	03-APR-2000; 2000US-0541759.
XX	
PA	(NYBL-) NEW YORK BLOOD CENT INC.
PA	(UYCA-) UNIV CASE WESTERN RESERVE.
PA	(UABR-) UAB RES FOUND.
XX	
PI	
PI	Lustigman S, Pearlman E, Unnasch TR;
XX	
DR	WPI; 2001-662950/76.
XX	
PT	Inducing angiogenesis in a tissue using the Ov-ASP protein isolated
PT	from the nematode <i>Onchocerca volvulus</i> is useful to treat circulatory or
PT	vascular disease such as ischemia
XX	
DS	Disclosure: Fig 1; 37pp; English.

The present invention relates to a method for inducing angiogenesis in tissue. The method comprising contacting the tissue with Ov-ASP. The Ov-ASP molecules are used to treat circulatory or vascular disorders, particularly ischaemia, congenital heart disease, myocardial disease or pericardial disease, more particularly cerebrovascular ischaemia, veno-occlusive disease or myocardial ischaemia, especially coronary artery disease. The invention is also used to treat cancer, diabetic retinopathy and inflammatory disease. Angiogenesis is also central to a number of pathological processes, including abnormalities of wound healing in diseases such as diabetes and dondrenal ulceration; chronic inflammatory disorders such as rheumatoid arthritis, psoriasis and periodontitis; dermatological conditions such as cutaneous malignancy, Kaposi's sarcoma, pyogenic granulomas and warts. Anti-Ov-ASP factors are useful to treat onchocerciasis (River Blindness) or benign or malignant neoplasia. The present sequence is homo sapiens (Hs)-TfR protein.

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SQ Sequence 243 AA;
Query Match 68.7%; Score 986; DB 22; Length 243;
Best Local Similarity 71.4%; Pred. No. 3e-84;
Matches 15; Conservative 26; Indels 2; Gaps 2

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Qy	14	MTLFFVLLEFLVAGLSSPSPANDKDPATALLTQTQOVORREIVNKHNLRLRAVSPASPM	73
Db	1	MALTEPV - FLVLTVALPESLA - GGRKPATFALLTQTQOVORREIVNKHNLRLRAVSPASPM	58
Qy	74	LKHEKNNKEAALNAQKMANCNYTRHSPMDRMTSLKGGENLYMSAPSSWSQAIOISMFDEY	13
Db	59	LKHEKNSREVTNNQGRMANNCITLOHSDPEDRRTSTRGCEMLYMSDPSPTSMSASAIQSYDEI	11
Qy	134	NPEDEGCVGPKTPRPNVYGHNTQVYVYMSVLYVCCGGAAYCPNOKLYKXYVYQYCPAGMMNAR	19
Db	119	LDEYVGVGPKSPNPNVYGHNTLLTMTSTVYQVCGGATATCPQMDSLKTYIYVQIQCPAGNNMNR	17
Qy	194	LVPYFPEGACAPASCPNDNCDGCLGTGCKYTEDVLSNCKSLKLTLTCKHQOLYVDSKASCNC	25
Db	179	KNTPLQGGTPTGACGCPDGDGGLCTNSCOYQDLSNCDLSUKNTAGCEHLELKEKCKATCLC	23
Qy	254	SNSIY 258	
Db	239	ENKTY 243	

RESULT	6
AAV44013	
ID	AAV44013 standard; Protein: 138 AA
XX	
AC	
XX	
DT	21-DEC-1999 (first entry)

DE Human testis specific protein #2.
XX Prediction; secondary structure; alignment; evolutionary conservation;
KW homology; periodicity; co-variation analysis; antigenic site;
KW site directed mutagenesis; interaction.
XX
OS Homo sapiens.
XX
PN US958784-A.
XX
PD 28-SEP-1999.
XX
PF 25-MAR-1992; 9205-0857224.
XX
PR 25-MAR-1992; 9205-0857224.
XX
PA (BENNY) BENNER S A.
XX
PI Benner SA;
XX
DR WPI; 1999-570766/48.
XX
PT Predicting the folded structure of proteins -
XX
PS disclosure: Column 389-390; 113pp: English.
XX
CC Sequences AY43902-Y44015 represent proteins used in a novel method of
CC predicting the folded structure of proteins, by aligning sequences of
CC homologous proteins and using patterns of evolutionarily conserved and
CC varied sequences to assign positions. Positions in the alignment are
CC assigned to the surface or inside of the folded structure, active sites,
CC and parsing segments. Secondary structural units are assigned by
CC identifying periodicity in the assignments, and assembled into globular
CC form using distance constraints imposed by disulfide bridges, active
CC site assignments and co-variation analysis. The predicted secondary
CC structures are useful for identifying antigenic sites on a protein
CC molecule, as guides for site directed mutagenesis studies, and for
CC understanding the interaction of a protein with other molecules.
SQ
Sequence 138 AA;
Query Match 41.4%; Score 595; DB 20; Length 138;
Best Local Similarity 71.7%; Pred. No. 6,7e-48;
Matches 99; Conservative 16; Mismatches 23; Indels 0; Gaps 0;
QY 74 LKMKENKKAANAOXNANOCNRYHNSPKDRMTSLKCGENLYSSASSSQAIQSPNDEY 133
DB 1 LKMKENKKAANAOXNANOCNRYHNSPKDRMTSLKCGENLYSSASSSQAIQSPNDEY 60
QY 134 NDFEFGVGPRTPNNAVGHYTVVWYSSYLVCGNAYCPNOKVLYKYVVCQCPAGNANR 193
DB 61 LDFVYGVGPKSPNNAVGHYTVVWYSSYLVCGNAYCPNOKVLYKYVVCQCPAGNANR 120
QY 194 LYPVEGAPCAPSCPDNC 211
DB 121 KNTPTVOGTPCAGCPDNC 138
RESULT 7
ABG06655
ID ABG06655 standard; Protein: 168 AA.
AC ABG06655;
XX
DT 13-FEB-2002 (first entry)
XX
DE Novel human diagnostic protein #6646.
XX
KW Human: chromosome mapping; gene mapping; gene therapy; forensic;
KW food supplement; medical imaging; diagnostic; genetic disorder.
XX
OS Homo sapiens.
XX

PN W0200175067-A2.
XX
PD 11-OCT-2001.
XX
PF 30-MAR-2001; 2001WO-US08631.
XX
PR 31-MAR-2000; 2000US-0540217.
XX
PR 23-AUG-2000; 2000US-0649167.
XX
PA (HYSE-) HYSEQ INC.
XX
PI Drmanac RT, Liu C, Tang YT;
XX
DR WPI; 2001-639362/73.
XX
DR N-PSDB; NAA570842.
XX
PT New isolated polynucleotide and encoded polypeptides, useful in
PT diagnostics, forensics, gene mapping, identification of mutations
PT responsible for genetic disorders or other traits and to assess
PT biodiversity
XX
PS Claim 20: SEQ ID NO 37014, 103pp: English.
XX
CC The invention relates to isolated polynucleotide (I) and
CC polypeptide (II) sequences. (I) is useful as hybridisation probes,
CC polymerase chain reaction (PCR) primers, oligomers, and for chromosome
CC and gene mapping, and in recombinant production of (II). The
CC polynucleotides are also used in diagnostics as expressed sequence tags
CC for identifying expressed genes. (I) is useful in gene therapy techniques
CC to restore normal activity of (II) or to treat disease states involving
CC (II). (II) is useful for generating antibodies against it, detecting or
CC quantifying a polypeptide in tissue, as molecular weight markers and as
CC a food supplement. (II) and its binding partners are useful in medical
CC imaging of sites expressing (II). (I) and (II) are useful for creating
CC disorders involving aberrant protein expression or biological activity.
CC The polypeptide and polynucleotide sequences have applications in
CC diagnostics, forensics, gene mapping, identification of mutations
CC responsible for genetic disorders or other traits to assess biodiversity
CC and to produce other types of data and products dependent on DNA and
CC amino acid sequences. ABG00010-ABG30377 represent novel human
CC diagnostic amino acid sequences of the invention.
CC Note: The sequence data for this patent did not appear in the printed
CC specification, but was obtained in electronic format directly from WIPO
CC at ftp://ipo.int/pub/published_pct_sequences.
XX
SQ Sequence 168 AA;
Query Match 39.9%; Score 572.5; DB 22; Length 168;
Best Local Similarity 58.9%; Pred. No. 1.1e-45;
Matches 113; Conservative 14; Mismatches 26; Indels 39; Gaps 3;
QY 13 AMTFLPVLLFLVAGLPSFPAEDKDPATALLTTOTQVOREIVNKNELRRVSPNANR 72
DB 14 AMALLPV-LEFLVTVLLPSLPA-EGKDPATALLTTOLQVOREIVNKNELRRKAVSPASN 71
QY 73 MLKMKENKKAANAOXNANOCNRYHNSPKDRMTSLKCGENLYSSASSSQAIQSPNDEY 132
DB 72 MLKMKENKKAANAOXNANOCNRYHNSPKDRMTSLKCGENLYSSASSSQAIQSPNDEY 131
QY 133 YNDFEFGVGPRTPNNAVGHYTVVWYSSYLVCGNAYCPNOKVLYKYVVCQCPAGNANR 192
DB 132 ILDFVYGVGPKSP-
QY 193 RLYVPEGAPC 204
DB 155 RKNTPVOGTPC 166
RESULT 8
AA44012
ID AA44012 standard; Protein: 137 AA.
AC AA44012;
XX

XX 21-DEC-1999 (first entry)
 DT Human testis specific protein #1.
 XX
 DE Prediction: secondary structure; alignment; evolutionary conservation;
 KM homology; periodicity; co-variation analysis; antigenic site;
 KM site directed mutagenesis; interaction.
 XX
 OS Homo sapiens.
 XX
 PN US5958784-A.
 XX
 PD 28-SEP-1999.
 XX
 PF 25-MAR-1992: 92US-0857224.
 XX
 PR 25-MAR-1992: 92US-0857224.
 XX
 PA (BENN/) BENNER S A.
 XX
 PI Benner SA;
 XX
 DR WPI: 1999-570766/48.
 XX
 PT Predicting the folded structure of proteins
 XX
 PS Disclosure: Column 387-388; 113pp; English.
 XX
 CC Sequences AAY43902-Y44015 represent proteins used in a novel method of
 CC predicting the folded structure of proteins, by aligning sequences of
 CC homologous proteins and using patterns of evolutionarily conserved and
 CC varied sequences to assign positions. Positions in the alignment are
 CC assigned to the surface or inside of the folded structure, active sites,
 CC and parsing segments. Secondary structural units are assigned by
 CC identifying periodicity in the assignments, and assembled into globular
 CC form using distance constraints imposed by disulfide bridges, active
 CC site assignments and co-variation analysis. The predicted secondary
 CC structures are useful for identifying antigenic sites on a protein
 CC molecule, as guides for site directed mutagenesis studies, and for
 CC understanding the interaction of a protein with other molecules.
 CC
 XX Sequence 137 AA;
 SQ
 Query Match 35.3%; Score 507.5; DB 20; Length 137;
 Best Local Similarity 61.6%; Pred. No. 1, 1e-39;
 Matches 85; Conservative 20; Mismatches 32; Indels 1; Gaps 1;
 QY 74 LKEMNKAAANAKNANOCNTRHSNPKDRMTSLKCGENLYSSAPSSQATOSMFDEY 133
 DB 1 LKEMSIQATTNAOKMANKICLHSSKDRKINIRGCENLYMSTDTLMSVYQSMWYEN 60
 QY 134 NDFEFGVGPRTNNAVGHYTVVWYSSYLVCGNAYCPNOKVLYKYVYCOYCPAGNMANR 193
 DB 61 EDFYVGVCAX-PNSAVGHYTVVWYSSYFICGCIAYCPNODNLKRYVCHCPGNMVMK 119
 QY 194 LYVPEQAGAPCASPDCNC 211
 DB 120 KSPYQCGTPCASCPCNNC 137
 RESULT 9
 AAY44011
 ID AAY44011 standard; Protein: 137 AA.
 AC AAY44011;
 XX
 DT 21-DEC-1999 (first entry)
 XX
 DE Rat sperm coating glycoprotein.
 XX
 KM Prediction: secondary structure; alignment; evolutionary conservation;
 KM homology; periodicity; co-variation analysis; antigenic site;

KM site directed mutagenesis; interaction.
 XX
 OS Bos taurus.
 XX
 PN US5958784-A.
 XX
 PD 28-SEP-1999.
 XX
 PF 25-MAR-1992: 92US-0857224.
 XX
 PR 25-MAR-1992: 92US-0857224.
 XX
 PA (BENN/) BENNER S A.
 XX
 PI Benner SA;
 XX
 DR WPI: 1999-570766/48.
 XX
 PT Predicting the folded structure of proteins
 XX
 PS Disclosure: Column 385-388; 113pp; English.
 XX
 CC Sequences AAY43902-Y44015 represent proteins used in a novel method of
 CC predicting the folded structure of proteins, by aligning sequences of
 CC homologous proteins and using patterns of evolutionarily conserved and
 CC varied sequences to assign positions. Positions in the alignment are
 CC assigned to the surface or inside of the folded structure, active sites,
 CC and parsing segments. Secondary structural units are assigned by
 CC identifying periodicity in the assignments, and assembled into globular
 CC form using distance constraints imposed by disulfide bridges, active
 CC site assignments and co-variation analysis. The predicted secondary
 CC structures are useful for identifying antigenic sites on a protein
 CC molecule, as guides for site directed mutagenesis studies, and for
 CC understanding the interaction of a protein with other molecules.
 CC
 XX Sequence 137 AA;
 SQ
 Query Match 33.8%; Score 485.5; DB 20; Length 137;
 Best Local Similarity 60.1%; Pred. No. 1, 2e-37;
 Matches 83; Conservative 18; Mismatches 36; Indels 1; Gaps 1;
 QY 74 LKEMNKAAANAKNANOCNTRHSNPKDRMTSLKCGENLYSSAPSSQATOSMFDEY 133
 DB 1 LRVEMHDAVYNAOKMANKRCIYNSPLQHRHTTLKCGENLYMANYPSMSVYQMDYDS 60
 QY 134 NDFEFGVGPRTNNAVGHYTVVWYSSYLVCGNAYCPNOKVLYKYVYCOYCPAGNMANR 193
 DB 61 LDFYFGGPRKVGAVGHYTVVWYSSYFVACGVAECPPDP-LKYFYVCHYCPGNGVYGR 119
 QY 194 LYVPEQAGAPCASPDCNC 211
 DB 120 LYSPTYEGEPCDCSPGNC 137
 RESULT 10
 AAY11989
 ID AAY11989 standard; Protein: 71 AA.
 AC AAY11989;
 XX
 DT 18-JUN-1999 (first entry)
 XX
 DE Human 5' EST secreted protein SEQ ID No: 589.
 XX
 KM Human: secreted protein; EST; expressed sequence tag; diagnosis;
 KM forensic; gene therapy; chromosome mapping; signal peptide; proster;
 KM upstream regulatory sequence; cytokine activity; cell proliferation;
 KM differentiation; haematopoiesis regulation; tissue growth regulation;
 KM reproductive hormone regulation; chemotactic; chemokinetic; haemostatic;
 KM thrombolytic; anti-inflammatory; tumour inhibition.
 XX
 OS Homo sapiens.
 XX

PN W0906550-A2.
 XX 11-FEB-1999.
 XX 31-JUL-1998; 96W0-1B01232.
 XX 01-AUG-1997; 97US-0905144.
 XX (GEST) GENSET.
 PI Ductect A, Dumas Milne Edwards J, Lacroix B;
 DR WPI: 1999-153780/13.
 DR N-PSDB: AAX40711.
 XX New isolated prostate-derived nucleic acids - used to develop
 PT products which may have cytokine, immune regulatory, haematopoiesis
 PT regulating, anti-inflammatory or tumour inhibition activity
 XX
 PS Claim 34; Page 672; 675pp: English.
 XX AAX40438 to AAX40715 represent 5' expressed sequence tags (ESTs) for
 CC human secreted proteins expressed in prostate, and encode the proteins
 CC given in AAY1716 to AAY1993 respectively. The proteins given represent
 CC the signal peptide and an N-terminal fragment of a secreted protein. The
 CC nucleic acid sequences can be used for producing secreted human gene
 CC products. They can also be used to develop products for diagnosis and
 CC therapy. The proteins obtained may have cytokine activity, cell
 CC proliferation and differentiation activity, haematopoiesis regulating
 CC activity, tissue growth regulating activity, reproductive hormone
 CC regulating activity, chemotactic/chemokinetic activity, haemostatic and
 CC thrombolytic activity, receptor/ligand activity, anti-inflammatory
 CC activity, tumour inhibition activity or other activities. The products
 CC can be used in forensic, gene therapy and chromosome mapping procedures.
 CC The sequences can also be used for obtaining corresponding promoter.
 CC sequences. The nucleic acids encoding the signal peptides can be used for
 CC directing extracellular secretion of a polypeptide or the insertion of a
 CC polypeptide into a membrane, or importing a polypeptide into a cell.
 XX
 SQ Sequence 71 AA:
 Query Match 24.7%; Score 354; DB 20; Length 71;
 Best Local Similarity 98.6%; Pred. No. 1.1e-25;
 Matches 70; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
 OY 1 KQIILHPLAETMTLPVLLPVLIVAGLSPSPANEDKDPATALLTOTOVOREIYNKN 60
 DB 1 KQIILHPLAETMTLPVLLPVLIVAGLSPSPANEDKDPATALLTOTOVOREIYNKN 60
 OY 61 ELRAVSPPAR 71
 DB 61 ELRAVSPPAR 71
 RESULT 11
 ID AAE18962
 AC AAE18962; standard; Protein: 255 AA.
 XX
 DT 21-MAR-2002 (first entry)
 XX
 DE Mouse testes-specific, vespid and pathogenic protein (RTVP).
 XX
 KW Mouse; testes-specific, vespid and pathogenic protein; RTVP; therapy;
 KW anti-neoplastic; prostatic neoplasia; prostate carcinoma; cytokine;
 KW metastatic disease; neoplastic disease; immune system; growth factor;
 KW cytosolic.
 XX
 OS Mus sp.
 XX
 FT key Location/Qualifiers
 FT Peptide 1..16

FT /label= Signal_peptide
 FT Protein 17..255
 FT /note= "Mouse mature RTVP protein"
 FT Modified-site 90..92
 FT /note= "N-glycosylation site"
 FT Domain 135..144
 FT /note= "Extracellular protein signature motif 1"
 FT Domain 160..170
 FT /note= "Extracellular protein signature motif 2"
 FT Misc-difference 195
 FT /note= "Encoded by TG"
 FT Misc-difference 210
 FT /note= "Encoded by GCAR"
 FT Domain 222..244
 FT /note= "Transmembrane domain"
 PN W0200206344-A2.
 PD 24-JAN-2002.
 PE 08-JUN-2001; 2001HO-US18487.
 PR 08-JUN-2000; 2000US-209989P.
 PA (BAYU) BAYLOR COLLEGE MEDICINE.
 PI Thompson TC, Ren C;
 XX
 XX WPI: 2002-195804/25.
 DR N-PSDB: AAD30356.
 XX
 PT Novel testes-specific, vespid and pathogenic polypeptide useful for
 PT treating and preventing prostatic neoplastic diseases, such as
 PT prostatic carcinoma and metastatic carcinoma, has antineoplastic
 PT activity
 XX
 PS Claim 22; Fig 1B; 72pp: English.
 XX
 CC The invention relates to a gene encoding non-human testes-specific,
 CC vespid and pathogenic protein (RTVP) having anti-neoplastic activity.
 CC The invention further relates to compositions and methods based on RTVP
 CC for the treatment, prevention and detection of prostatic neoplasia such
 CC as prostatic carcinoma and associated metastatic disease. Diagnostic kit
 CC comprising RTVP protein is useful for the detection of neoplastic
 CC disease. Composition comprising RTVP protein is useful in the diagnosis,
 CC studying and treatment of prostatic neoplasia such as prostatic carcinoma
 CC and associated metastatic disease. It is also useful for stimulating
 CC immune system e.g. cytokines and growth factors in a patient. The present
 CC sequence is mouse RTVP protein.
 XX
 SQ Sequence 255 AA:
 Query Match 24.0%; Score 344; DB 23; Length 255;
 Best Local Similarity 33.6%; Pred. No. 5.3e-24;
 Matches 88; Conservative 37; Mismatches 81; Indels 56; Gaps 12;
 OY 19 VILFLVAGLSPSPANEDKDPATALL--TTQTOVOREIYNHNEARRAVSPPARMLK 75
 DB 3 VILAVIYMASSVSSS-----STASTLPDITNEDFIKEOVYHNDLRKSVPPARMLK 57
 OY 76 MEYNEKAANOKWANOCONRHSNPK-----DRNTSLKCGENILYMS--APSSMSOAIOS 128
 DB 58 MSWDPLQIDIAAATKSCFEKH-NPLHSRIHPNTAL--GENIWMGSLSIFSSSALISA 114
 OY 129 WPEVYDEPDFGVGKPTNNAVGHYTOVWYSSYLVCGMAYCPNOVLKYYVVCQYCPAG 188
 DB 115 WYEIEIKHYDFSR--RKCRHVCGHYTOVWADSKYKGCAYVQCPNGA---NFCIDYGPAG 168
 OY 189 NMANRLIYVYEGGAPCASC--DNCDDGLCTN-----GCKYEDL 225
 DB 169 NPTF---WPIKGGATSCCEPRDKCLNSICINPRDOVSRTYSVDYDPMPITLNRRTISL 225
 OY 226 YSNCKSLKL-----TITCKHQ 241

Db 226 FLIAKSVLLSLVITIKWKH 247

RESULT 12

ID AAB01400 standard. Protein: 219 AA.

XX AAB01400:

DT 20-OCT-2000 (first entry)

XX Neuron-associated protein.

XX Neuron-associated protein.

KM Neuromuscular associated protein: NEUAP; neurological disorder; epilepsy;

KM Ischemic cerebrovascular disease; stroke; cerebral neoplasm;

KM Alzheimer's disease; Pick's disease; Huntington's disease;

KM dementia; Parkinson's disease; demyelinating disease; meningitis;

KM prion disease; Kuru; Creutzfeldt-Jakob disease; neurofibromatosis;

KM cerebral palsy; muscular dystrophy; central nervous system; CNS;

KM peripheral nervous system; PNS; myopathy; schizophrenia;

KM actinic keratosis; arteriosclerosis; atherosclerosis; buritis;

KM cirrhosis; hepatitis; mixed connective tissue disease; MCTD;

KM myelofibrosis; paroxysmal nocturnal haemoglobinuria; cancer;

KM autoimmune disease; inflammation; acquired immunodeficiency syndrome;

KM AIDS; Addison's disease; adult respiratory distress syndrome;

KM allergy; ankylosing spondylitis; amyloidosis; anaemia; asthma;

KM Werner syndrome; trauma; human.

XX Homo sapiens.

XX WO200034477-A2.

PD 15-JUN-2000.

XX 10-DEC-1999; 99MO-US30408.

XX 11-DEC-1998; 98US-0210083.

PR 11-DEC-1998; 98US-9123456.

PR 09-FEB-1999; 99US-0119365.

PR 16-MAR-1999; 99US-0124687.

XX (INCYTE PHARM INC.

XX Tang YT, Yue H, Baughn MR, Hillman JL, Lal P, Au-Young J, Yang J;

PI Lu DM, Azimzai Y;

XX WPI: 2000-423423/36.

DR New human neuron-associated proteins and polynucleotides encoding them,

XX useful for diagnosis, treatment and prevention of cell proliferative

PT disorders including cancer, neuronal and neurological disorders

XX Disclosure: Page 144-145; 14pp; English.

XX Human neuron-associated proteins (NEUAP) can be used for

CC treating or preventing a disorder associated with decreased

CC expression or activity of NEUAP. Antagonists of NEUAP are useful for

CC treating or preventing disorder associated with increased expression

CC or activity of NEUAP. NEUAP or their fragments or derivatives are

CC useful for treating neurological disorder such as epilepsy, ischemic

CC cerebrovascular disease, stroke, cerebral neoplasms, Alzheimer's

CC disease, Pick's disease, Huntington's disease, dementia and

CC Parkinson's disease. NEUAPs are also useful for treating other

CC demyelinating diseases, bacterial and viral meningitis, prion

CC diseases including Kuru, Creutzfeldt-Jakob disease, nutritional and

CC metabolic diseases of the nervous system, neurofibromatosis, other

CC developmental disorders of the central nervous system, cerebral

CC palsy, neuroskeletal disorders, autonomic nervous system disorders,

CC cranial nerve disorders, spinal cord diseases, muscular dystrophy and

CC other neuromuscular disorders, peripheral nervous system disorders,

CC inherited, metabolic, endocrine, and toxic myopathies, mental

CC disorders including mood, anxiety and schizophrenic disorders, a cell

CC proliferative disorder such as actinic keratosis, arteriosclerosis,

CC atherosclerosis, buritis, cirrhosis, hepatitis, mixed connective

CC tissue disease (MCTD), myelofibrosis, paroxysmal nocturnal

CC haemoglobinuria, cancers of the adrenal gland, bladder, bone,

CC bone marrow, brain, breast, cervix, and an autoimmune/inflammatory

CC disorder such as acquired immunodeficiency syndrome (AIDS), Addison's

CC disease, adult respiratory distress syndrome, allergies, ankylosing

CC spondylitis, amyloidosis, anemia, asthma, Werner syndrome,

CC complications of cancer, hemodialysis, and extracorporeal circulation,

CC viral, bacterial, fungal parasitic, protozoal, and hematologic

CC infections, and trauma. This protein was designated 9847722.

XX Sequence 219 AA:

SO

Query Match 22.5%; Score 322.5; DB 21; Length 219;

Best Local Similarity 36.5%; Pred. No. 4; se 22;

Matches 77; Conservative 30; Mismatches 63; Indels 41; Gaps 11;

Db 25 AGILSPFANEDKDPATFALLTQVOVREIVNKNELRRAYSPPARMKMKENKBA 84

12 ANILPDI-ENED-----FIKDCVRHNKRESEVPTASDLTYMDPALAQ 56

85 NQKMANCNCYRHS---NPKDRK---TSLKCGENTLYSSAP--SSWSQAIQSMFDEYND 136

57 IKAAMASNCPSNTRAKPRKHPHFTSL--GENITGSPIFSVSSALTNWDELDYD 114

137 DRGVGPKTPNAVGHITQYVWISSYLVGCGNAYCPNOKULKY-----YYVCOYCPAGN 189

115 NFRT--RICKRVGCHYQVWADSKVGCVAQFCP--KVSFDALSNGAHFTCNVGGGN 170

190 WANRLVPEEQAPCASCEDN--CDGGLCTN 218

171 YPT---WPKRGATCSACPNDKCDNLGVN 198

RESULT 13

ID AAB43408 standard; Protein: 302 AA.

XX AAB43408:

XX 08-FEB-2001 (first entry)

XX Human cancer associated protein sequence SEQ ID NO:853.

XX Human: cancer associated gene; cancer antigen; detection; cancer;

KM diagnosis; cytostatic; proliferative; vulnery; immunomodulator;

KM antidiabetic; antisthmatic; antirheumatic; antihypertic; antiviral;

KM antiinflammatory; antithyroid; antileptoric; antibacterial; cardiac;

KM dermatological; neuroprotective; thrombolytic; coagulant; noctropic;

KM vasotropic; antipsoritic; antiangiogenic; gene therapy; inflammation;

KM immune disorder; hematopoietic cell disorder; autoimmune disorder;

KM allergic reaction; graft versus host disease; organ rejection;

KM haemostatic; thrombolytic; cardiovascular disorder; infection;

XX neurological disease; drug screening.

XX Homo sapiens.

XX WO200053550-A1.

XX 21-SEP-2000.

XX 08-MAR-2000; 2000MO-US05682.

XX 12-MAR-1999; 99US-0124270.

XX (HUMA-) HUMAN GENOME SCI INC.

XX Rosen CA, Ruben SM;

XX WPI: 2000-587533/55.

XX N-PSDB: AAC77617.

PT Novel isolated nucleic acids comprising sequences encoding peptides
 XX useful for treating or diagnosing e.g. cancer -
 PS Claim 11, Page 1406-1407, 2352pp: English.
 XX
 CC AAC7607 to AAC7844 encode the human cancer associated proteins given
 CC in AAB43398 to AAB44239. The proteins can have activities based on the
 CC tissues and cells the genes are expressed in. Example of activities
 CC include: cytostatic; proliferative; anti-invasive; immunomodulatory;
 CC antidiabetic; antihypertensive; anti-inflammatory; anti-angiogenic;
 CC dermatological; neuroprotective; cardiant; thrombolytic; coagulant;
 CC neoplastic; vasotropic; antiproliferative and angiogenic. The
 CC polynucleotides and polypeptides can be used for preventing, treating or
 CC ameliorating medical conditions and diagnosing pathological conditions.
 CC Polynucleotides, antibodies, agonists and antagonists from
 CC the present invention may be used to treat immune disorders by activating
 CC or inhibiting the proliferation, differentiation or mobilisation of
 CC immune cells, to treat disorders of haematopoietic cells, autoimmune
 CC disorders, allergic reactions, graft versus host disease and organ
 CC rejection, modulate haemostatic or thrombolytic activity, modulate
 CC inflammation, cancers, cardiovascular disorders, neurological disease and
 CC bacterial or viral infections. The peptides, nucleotides, antibodies,
 CC agonists and antagonists may be also be used in drug screens. AAC78449 to
 CC AAC78457 and AAB44240 represent sequences used in the exemplification of
 CC the present invention.
 XX
 SQ Sequence 302 AA:
 Query Match 22.1%; Score 318; DB 21; Length 302;
 Best Local Similarity 35.3%; Pred. No. 1.8e-21;
 Matches 83; Conservative 31; Mismatches 79; Indels 42; Gaps 12;
 2 KOILPALETTA-NILFPLLELVAGLSPFANEKDPATFALLTOTOVOREIYNKN 60
 DB ROSKRYLATIAMNSFVSNSTRNLPDI-ENED-----FIKCYRIRIN 78
 QY 61 EURRAPPARNMLKMKENKKAANAKNOCNRYHS---NPKDRM---TSKCGENL 113
 DB 79 KRESEVPRTASDMLYMTMPALQAKAMSNOCFSHNRRLPKRLHPNTSL--GEHI 136
 QY 114 YMSAP-SSWSQAIOSEFDEYNDPFCVGPRTNNAVGHYTOVWVSYLVGCGNAYCPN 172
 DB 137 WTGSVPFESVSAITWYDEIDVDFT--RICKKVCGHYQVWVADSKYCAVQFCP- 193
 QY 173 OKYLKY-----YYVCOYCPAGNMANRLVPEEGAPCASPDPN--CDGCLCTN 218
 DB 194 -KVGFDALNSGAHFICNGPQGNTPR---WPKKCATXSACPNKCDLNLCAVN 244

RESULT 14
 AAB64952
 ID AAB64952 standard; Protein: 181 AA.
 XX
 AC AAB64952;
 XX
 DT 23-MAR-2001 (first entry)
 XX
 DE Gene 12 human secreted protein homologous amino acid sequence #130.
 XX
 KW Human; secreted protein; diagnosis; immunomodulatory; antisclerotic;
 KW dermatological; immunosuppressive; antinflammatory; anti-HIV;
 KW immunostimulant; cytostatic; cardiant; anti-angiogenic;
 KW ophthalmological; neuroprotectant; neoplastic; anticonvulsant; vulnary;
 KW antihelmers; antiparkinsonian; antileukotria; immune disorder;
 KW multiple sclerosis; systemic lupus erythematosus; HIV; infection;
 KW hyperproliferative disorder; cancer; Gaucher's disease; wound healing;
 KW cardiovascular disease; Schmitz syndrome; Chaga's cardiomyopathy;
 KW coronary arteriosclerosis; angiotensin disorder; diabetic retinopathy;
 KW corneal graft neovascularisation; neurological disorder; regeneration;
 KW Huntington's chorea; Alzheimer's disease; Parkinson's disease;
 KW infectious disease; chemotaxis.

OS Homo sapiens.
 XX
 PN WO200076530-A1.
 XX
 PD 21-DEC-2000.
 XX
 PF 01-JUN-2000; 2000MO-US14933.
 XX
 PR 11-JUN-1999; 9905-0138572.
 XX
 PA (HUMA-) HUMAN GENOME SCI INC.
 XX
 PI (ROSE/) ROSEN C A.
 XX
 PI Rosen CA, Ruben SM, Komatsoulis GA;
 DR WPI; 2001-071147/08.
 XX
 PT Nucleic acids encoding 49 human secreted polypeptides, useful for
 PT preventing, diagnosing and/or treating e.g. cancers, Parkinson's
 PT disease and diabetic retinopathy.
 XX
 PS Disclosure: Page 528-529, 554pp: English.
 XX
 CC The polynucleotide sequences given in AAF33213 to AAF33261 encode the
 CC human secreted proteins given in AAB64882 to AAB64930. AAB64931 to
 CC AAB64991 represent human secreted polypeptide sequences and proteins
 CC homologous to them, which are given in the exemplification of the present
 CC invention. Human secreted proteins have activities based on the tissues
 CC and cells the genes are expressed in. Examples of activities include:
 CC immunomodulatory; anti-sclerotic; dermatological; immunosuppressive;
 CC anti-inflammatory; anti-HIV; immunostimulant; cytostatic; cardiant;
 CC vascular; antimicrobial; anti-angiogenic; ophthalmological;
 CC neuroprotectant; anticonvulsant; neoplastic; antihelmers;
 CC antiparkinsonian; and vulnary. The polynucleotides and polypeptides can
 CC be used in the prevention, diagnosis and treatment of diseases associated
 CC with inappropriate polypeptide expression. Disorders that may be
 CC prevented, diagnosed and/or treated by the above methods include immune
 CC disorders (e.g. multiple sclerosis, systemic lupus erythematosus and
 CC human immuno-deficiency virus (HIV) infections), hyperproliferative
 CC disorders (e.g. cancers and Gaucher's disease), cardiovascular diseases
 CC (e.g. Schmitz syndrome, Chaga's cardiomyopathy and coronary
 CC arteriosclerosis), angiotensin disorders (e.g. corneal graft
 CC neovascularisation), angiotensin disorders (e.g. corneal graft
 CC infection), Huntington's chorea, Alzheimer's disease and Parkinson's disease),
 CC infectious diseases and/or for promoting wound healing, regeneration and
 CC /or chemotaxis. AAF33204 to AAF33212 and AAB64881 represent sequences
 CC used in the exemplification of the present invention.
 XX
 SQ Sequence 181 AA:
 Query Match 21.9%; Score 315; DB 22; Length 181;
 Best Local Similarity 38.7%; Pred. No. 1.8e-21;
 Matches 70; Conservative 29; Mismatches 56; Indels 26; Gaps 9;
 53 REIVKHNELRAVSPARNMLKMKENKKAANAKNOCNRYHS---NPKDRM---T 105
 DB 10 KCOVRIHNKFRSEVKPTASDMLYMTMPALQAKAMSNOCFSHNRRLPKRLHPNT 69
 QY 106 SLKCGENLYMSAP-SSWSQAIOSEFDEYNDPFCVGPRTNNAVGHYTOVWVSYLVG 125
 DB 70 SL--GENINTGVPFESVSAITWYDEIDVDFT--RICKKVCGHYQVWVADSKYV 130
 QY 165 CGNAYCPNOKYLKY-----YYVCOYCPAGNMANRLVPEEGAPCASPDPN--CDGCL 215
 DB 126 CAVQFCP--KVGFDALNSGAHFICNGPQGNTPR---WPKKCATXSACPNKCDLNL 180
 QY 216 C 216
 DB 181 C 181

RESULT 15
 AAE21099

